(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 6 May 2005 (06.05.2005)

PCT

(10) International Publication Number WO 2005/040069 A1

(51) International Patent Classification⁷: C05G 3/00

C05C 9/00,

(74) Agent: BLEUKX, LUC; Bleukx Consultancy BVBA, Rijksweg 237, B-3650 Dilsen-Stokkem (BE).

(21) International Application Number:

PCT/EP2003/011070

(22) International Filing Date: 6 October 2003 (06.10.2003)

(25) Filing Language:

.

English

(26) Publication Language:

English

(71) Applicant (for all designated States except US): YARA INTERNATIONAL ASA [NO/NO]; Bygdøy Allé 2, N-0240 Oslo (NO).

(72) Inventors; and

(75) Inventors/Applicants (for US only): BLJPOST, Erik [NL/NL]; Donkeregaarde 51, NL-3436 ZD Nieuwegein (NL). VANMARCKE, Luc [BE/BE]; Gravin d'Alcantaralaan 43, B-9971 Lembeke (BE). VAN DER HOEVEN, John [NL/NL]; Otterspoorbroek 3a, NL-3621 BB Breukelen (NL). VAN BELZEN, Ruud [NL/NL]; Blindenhoek 4, NL-4331 CA Middelburg (NL).

- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, 7W
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD OF IMPROVING THE CRUSHING STRENGTH, IMPACT RESISTANCE AND COMPRESSIBILITY OF UREA, AND UREA COMPOSITION

(57) Abstract: A method of improving the crushing strength, impact resistance and the compressibility of urea granules by the addition of a compound to the molten urea, wherein the compound comprises both a polyvinyl compound and an organic molecule consisting of 1-10 carbon atoms and 1-10 polar organic groups.